

OPEN FLOW TEST DATA

Date: _____
 Operator: _____ Lease: _____
 Location: 1-13 L 13 - 31 N - 13 W County: SAN JUAN State: PR
 Formation: LA SA VE DE Pool: LANCO LA SA VE DE EXT
 Casing: 5 1/2" " Set @ 6715 ' Tubing: 2 " Set @ 4136 '
 Pay Zone: 6612 ' To: 6716 ' Total Depth: 6716 '
 Choke Size: 3/8 " Choke Constant = C = 14.1605
 Stimulation Method: S Flow Through: Casing _____ Tubing X
 Shut-In Pressure Casing: 1037 psig / 12 = 1049 psia (Shut-in 7 days)
 Shut-In Pressure Tubing: 1039 psig / 12 = 1051 psia
 Flowing Pressure: P : 130 psig / 12 = 142 psia
 Working Pressure: P_w : 277 psig / 12 = 289 psia
 Temperature: T : 60 °F / 460 = 528 ° Absolute
 F_{pv} (from tables) : 1.122 Gravity .640 Est n .75

$$14.1605 \times 277 \times 1.000 \times .9759 \times 1.122$$

$$\text{Choke Volume} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = \underline{\underline{4295}} \text{ MCF/D}$$

$$\text{Open Flow} = Aof = Q$$

$$Aof = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \left[\frac{100,401}{1,327} \right]^{.75} = 1.1822$$

$$Aof = \underline{\underline{5,076}} \text{ MCF/D}$$

Tested By: GEOELECTRIC, INC. D. H. KEYES AGENT

Witnessed By: BRADLEY D. KEYES

[Signature]

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